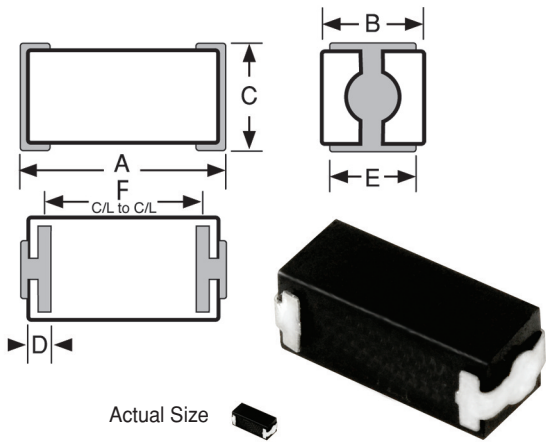


SERIES M1331



Shielded Surface Mount Inductors



Actual Size

Military QPL Approval

- M83446/26 Iron Core/Iron Sleeve
- M83446/26 Iron Core/Ferrite Sleeve
- M83446/27 Ferrite Core/Ferrite Sleeve

† **Ordering Note** Military parts must be ordered to the M83446/ part number

Physical Parameters

| | Inches | Millimeters |
|---|----------------|--------------|
| A | 0.300 to 0.320 | 7.62 to 8.13 |
| B | 0.105 to 0.125 | 2.67 to 3.18 |
| C | 0.125 to 0.145 | 3.18 to 3.68 |
| D | 0.020 to 0.040 | 0.51 to 1.02 |
| E | 0.075 to 0.095 | 1.91 to 2.41 |
| F | 0.230 to 0.260 | 5.84 to 6.60 |

Dimensions "A" and "C" are over terminations

Weight Max (Grams) 0.30

Operating Temperature Range -55°C to +105°C

Current Rating at 90°C Ambient 15°C Rise

Maximum Power Dissipation at 90°C 0.585 W

Incremental Current Current level which causes a maximum of 5% decrease in inductance.

Coupling 3% Max.

****Note** Self Resonant Frequency (SRF) values for -101K to -331K are calculated and for reference only.

Marking Delevan; dash number followed by an S; date code (YYWWL) followed by an M.

Example: M1331-683K
 DELEVAN
 683S
 1321A M

DASH NUMBER*
 MIL DASH #
 INDUCTANCE (µH) ±10%
 TEST FREQUENCY (MHz)
 Q MINIMUM
 SRF MINIMUM (MHz)
 CURRENT RATING MAXIMUM (mA)**
 MAXIMUM (OHMS)
 DC RESISTANCE
 INCREMENTAL CURRENT (mA)

| M83446/26 – SERIES M1331 IRON CORE - IRON SLEEVE | | | | | | | | |
|--|-----|-------|----|------|---------|-----|------|-----|
| -101K | 01F | 0.10 | 45 | 25.0 | 490.0** | 670 | 0.10 | 670 |
| -121K | 02F | 0.12 | 45 | 25.0 | 430.0** | 635 | 0.11 | 635 |
| -151K | 03F | 0.15 | 45 | 25.0 | 415.0** | 610 | 0.12 | 610 |
| -181K | 04F | 0.18 | 45 | 25.0 | 375.0** | 585 | 0.13 | 585 |
| -221K | 05F | 0.22 | 45 | 25.0 | 330.0** | 545 | 0.15 | 545 |
| -271K | 06F | 0.27 | 45 | 25.0 | 300.0** | 530 | 0.16 | 530 |
| -331K | 07F | 0.33 | 44 | 25.0 | 260.0** | 495 | 0.18 | 495 |
| -391K | 08F | 0.39 | 42 | 25.0 | 230.0 | 485 | 0.19 | 485 |
| -471K | 09F | 0.47 | 41 | 25.0 | 220.0 | 460 | 0.21 | 460 |
| -561K | 10F | 0.56 | 41 | 25.0 | 210.0 | 440 | 0.23 | 440 |
| -681K | 11F | 0.68 | 39 | 25.0 | 180.0 | 430 | 0.24 | 430 |
| -821K | 12F | 0.82 | 38 | 25.0 | 165.0 | 405 | 0.27 | 405 |
| -102K | 13F | 1.00 | 37 | 25.0 | 150.0 | 385 | 0.30 | 385 |
| -122K | 14F | 1.20 | 40 | 7.9 | 130.0 | 247 | 0.73 | 247 |
| -152K | 15F | 1.50 | 41 | 7.9 | 115.0 | 228 | 0.86 | 228 |
| -182K | 16F | 1.80 | 43 | 7.9 | 105.0 | 217 | 0.95 | 217 |
| -222K | 17F | 2.20 | 45 | 7.9 | 95.0 | 202 | 1.10 | 202 |
| -272K | 18F | 2.70 | 48 | 7.9 | 90.0 | 193 | 1.20 | 193 |
| -332K | 19F | 3.30 | 49 | 7.9 | 80.0 | 185 | 1.30 | 185 |
| -392K | 20F | 3.90 | 50 | 7.9 | 75.0 | 173 | 1.50 | 173 |
| -472K | 21F | 4.70 | 50 | 7.9 | 70.0 | 136 | 2.40 | 136 |
| -562K | 22F | 5.60 | 50 | 7.9 | 60.0 | 124 | 2.90 | 124 |
| -682K | 23F | 6.80 | 50 | 7.9 | 55.0 | 118 | 3.20 | 118 |
| -822K | 24F | 8.20 | 50 | 7.9 | 53.0 | 111 | 3.60 | 111 |
| -103K | 25F | 10.0 | 50 | 7.9 | 50.0 | 106 | 4.00 | 106 |
| M83446/26 – SERIES M1331 IRON CORE - FERRITE SLEEVE | | | | | | | | |
| -123K | 26F | 12.0 | 36 | 2.5 | 35.0 | 122 | 3.00 | 122 |
| -153K | 27F | 15.0 | 38 | 2.5 | 30.0 | 115 | 3.40 | 115 |
| -183K | 28F | 18.0 | 40 | 2.5 | 26.0 | 108 | 3.80 | 108 |
| -223K | 29F | 22.0 | 40 | 2.5 | 24.0 | 96 | 4.90 | 96 |
| -273K | 30F | 27.0 | 40 | 2.5 | 21.0 | 88 | 5.80 | 88 |
| -333K | 31F | 33.0 | 41 | 2.5 | 20.0 | 83 | 6.50 | 83 |
| -393K | 32F | 39.0 | 42 | 2.5 | 19.0 | 75 | 7.90 | 75 |
| -473K | 33F | 47.0 | 44 | 2.5 | 16.0 | 69 | 9.30 | 69 |
| -563K | 34F | 56.0 | 44 | 2.5 | 15.0 | 64 | 11.0 | 64 |
| -683K | 35F | 68.0 | 45 | 2.5 | 13.0 | 61 | 12.0 | 61 |
| -823K | 36F | 82.0 | 45 | 2.5 | 11.0 | 59 | 13.0 | 59 |
| -104K | 37F | 100.0 | 40 | 2.5 | 10.5 | 51 | 16.8 | 51 |
| M83446/27 – SERIES M1331 FERRITE CORE - FERRITE SLEEVE | | | | | | | | |
| -124K | 01F | 120.0 | 31 | 0.79 | 13.0 | 88 | 5.80 | 27 |
| -154K | 02F | 150.0 | 33 | 0.79 | 12.0 | 75 | 7.90 | 24 |
| -184K | 03F | 180.0 | 33 | 0.79 | 11.0 | 69 | 9.40 | 22 |
| -224K | 04F | 220.0 | 35 | 0.79 | 10.0 | 64 | 11.0 | 20 |
| -274K | 05F | 270.0 | 35 | 0.79 | 9.0 | 61 | 12.0 | 18 |
| -334K | 06F | 330.0 | 35 | 0.79 | 8.0 | 53 | 16.0 | 16 |
| -394K | 07F | 390.0 | 35 | 0.79 | 7.8 | 46 | 21.0 | 14 |
| -474K | 08F | 470.0 | 35 | 0.79 | 7.5 | 43 | 24.0 | 13 |
| -564K | 09F | 560.0 | 35 | 0.79 | 7.0 | 40 | 28.0 | 12 |

Parts listed above are QPL/MIL qualified

*Complete part # must include series # PLUS the dash #

Packaging Tape & reel (16mm): 7" reel, 500 pieces max.; 13" reel, 2200 pieces max.

Made In the U.S.A.